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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 04/25/2008

William O'Driscoll - 12-1 Trane 3600 Pammel Creek Road La Crosse, WI 54601 EXAMINER

LEWIS, DAVID LEE

PAPER NUMBER

ART UNIT

DATE MAILED: 04/25/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/780.066	02/17/2004	Jeffrey J. DeGroot	D-2778DIV1/WOD	2238

TITLE OF INVENTION: GENERATING AND VALIDATING PIXEL COORDINATES OF A TOUCH SCREEN DISPLAY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	07/25/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notifical	correspondence includired below or directed oth	ng the Patent, advance on herwise in Block 1, by (a	rders and notification of n a) specifying a new corres	naintenance fees w pondence address;	ill be and/or	mailed to the current (b) indicating a sepa	corres arate "I	pondence address as EE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
7590 0425/2908 William O'Driscoll - 12-1 Trane 3600 Pammel Creek Road				Cert	ificate	of Mailing or Trans s) Transmittal is being ficient postage for firs ISSUE FEE address I) 273-2885, on the d	missio g depos st class above late ind	n ited with the United mail in an envelope or being facsimile icated below.
La Crosse, WI 5	4601							(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	NVENTOR		ATTORNEY DOCKET NO.		FIRMATION NO.
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APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	PEE	TOTAL FEE(S) DUE		
nonprovisional	NO	\$1440	\$300	\$0		\$1740		07/25/2008
EXAM		ART UNIT	CLASS-SUBCLASS					
LEWIS, DA		2629	345-173000					
I. Change of correspondence address or indication of "Fee Address" (37 CFR 1.563). Change of correspondence address (or Change of Correspondence Address form PTO-SB/122) attached. The Address form PTO-SB/122 or more recens) attached. Use of a Customer PTO-SB/47; Rev 03-02 or more recens) attached. Use of a Customer Number is required.			or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attorney	names of up to 3 registered patent attorneys				
PLEASE NOTE: Uni recordation as set forti (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee pletion of this form is NO	THE PATENT (print or typ data will appear on the p. T a substitute for filing an : (B) RESIDENCE: (CTTY	atent. If an assigne assignment. and STATE OR C	OUNT	'RY)		
4a. The following fee(s):	are submitted:	41	p. Payment of Fee(s): (Plea A check is enclosed. Payment by credit can The Director is hereby overpayment, to Depo	se first reapply an	y prev	riously paid issue fee sched. required fee(s), any de	shown	above)
	s SMALL ENTITY state	is. See 37 CFR 1.27.	☐ b. Applicant is no long					
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than the Office.	he applicant; a regis	tered a	attorney or agent; or th	ne assig	nee or other party in
Authorized Signature				Date				
Typed or printed name				Registration N	D			
This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 d application form to the ons for reducing this but firginia 22313-1450. DC 13-1450.	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	on is required to obtain or r 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by the imated to take 12 n idual case. Any con r, U.S. Patent and THIS ADDRESS.	ne publ ninutes mment Fraden SENI	ic which is to file (and to complete, includir s on the amount of ti- nark Office, U.S. Dep D TO: Commissioner	d by the ng gath me you artmen for Pat	e USPTO to process) ering, preparing, and require to complete to of Commerce, P.O. ents, P.O. Box 1450,

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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DATE MAILED: 04/25/2008

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10/780,066	02/17/2004	Jeffrey J. DeGroot	D-2778DIVI/WOD	2238	
75	90 04/25/2008	EXAMINER			
William O'Driscoll - 12-1			LEWIS, DAVID LEE		
Trane			ART UNIT	PAPER NUMBER	
3600 Pammel Creek Road La Crosse, WI 54601			2629		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1013 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1013 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/780,066	DEGROOT ET AL.	
Examiner	Art Unit	
DAVID LIEWIS	2620	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 4/8/2008.
- The allowed claim(s) is/are 138-146.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - b) \(\subseteq \text{Some* c) \subseteq \text{None of the:} a) \square All
 - 1. T Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No.
 - 3.
 ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. | Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08). Paper No./Mail Date
- 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date
- 7. T Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- Other .

/David L Lewis/ Primary Examiner, Art Unit 2629 Application/Control Number: 10/780,066 Page 2

Art Unit: 2629

REASONS FOR ALLOWANCE

1. Claims 138-146 are allowed over the prior art of record.

Claims 1-137 have been cancelled.

3. The following is an examiner's statement of reasons for allowance: The prior art of record fails to teach of the claimed invention. The feature of independent claims 138 directed towards allowable subject matter is during the second period, creating a second ground reference at the fourth bus bar such that the second voltage signal and the second ground reference creates a second varying voltage potential across the second resistive screen during the second period, during the second period, sampling the second varying voltage potential via at least one of the first bus bar and the second bus bar, and determining a Yraw value based upon sampling the second varying voltage potential. The feature of independent claims 143 directed towards allowable subject matter is during the second period, creating a second ground reference at the fourth bus bar such that the second voltage signal and the second ground reference creates a second varying voltage potential across the second resistive screen during the second period, during the second period, sampling the second varying voltage potential via at least one of the first bus bar and the second bus bar, determining a Yraw value based upon sampling the second varying voltage potential, determining a Ymax value based on the second voltage reference signal. determining a Y-min value based on the second ground reference, and determining a Y-pixel location based on the Yraw value, the Ymin value, and the Ymax value. Kent teaches of a like display device, but fails to teach of the above claimed features. Therefore the above said features in combination with the other limitations of the above independent claims 138 and 143, and therefore claims 138-146, are found to be allowable over the prior art of record.

Page 3

Application/Control Number: 10/780,066

Art Unit: 2629

 Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled

"Comments on Statement of Reasons for Allowance"

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to **David L. Lewis** whose telephone number is

(571) 272-7673. The examiner can normally be reached on MTWTHF from 8 to

5. If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Bipin Shalwala, can be reached on (571) 272-7681. Any

inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone

number is (571)-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR

only. For more information about the PAIR system, see http://pair-

direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-

free).

Examiner: David L Lewis

April 14, 2008

6.

/David L Lewis/

Primary Examiner, Art Unit 2629